

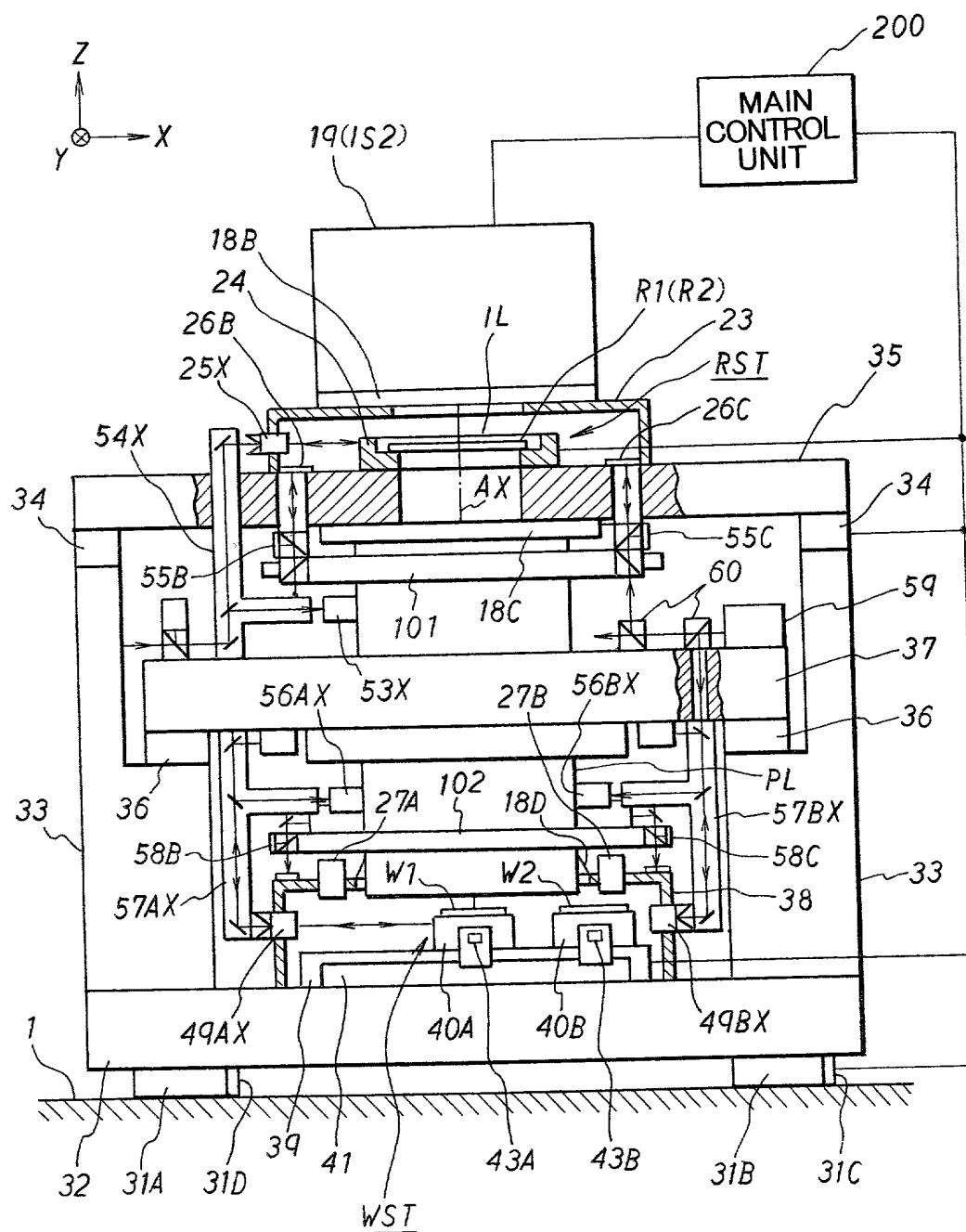
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Fig. 2

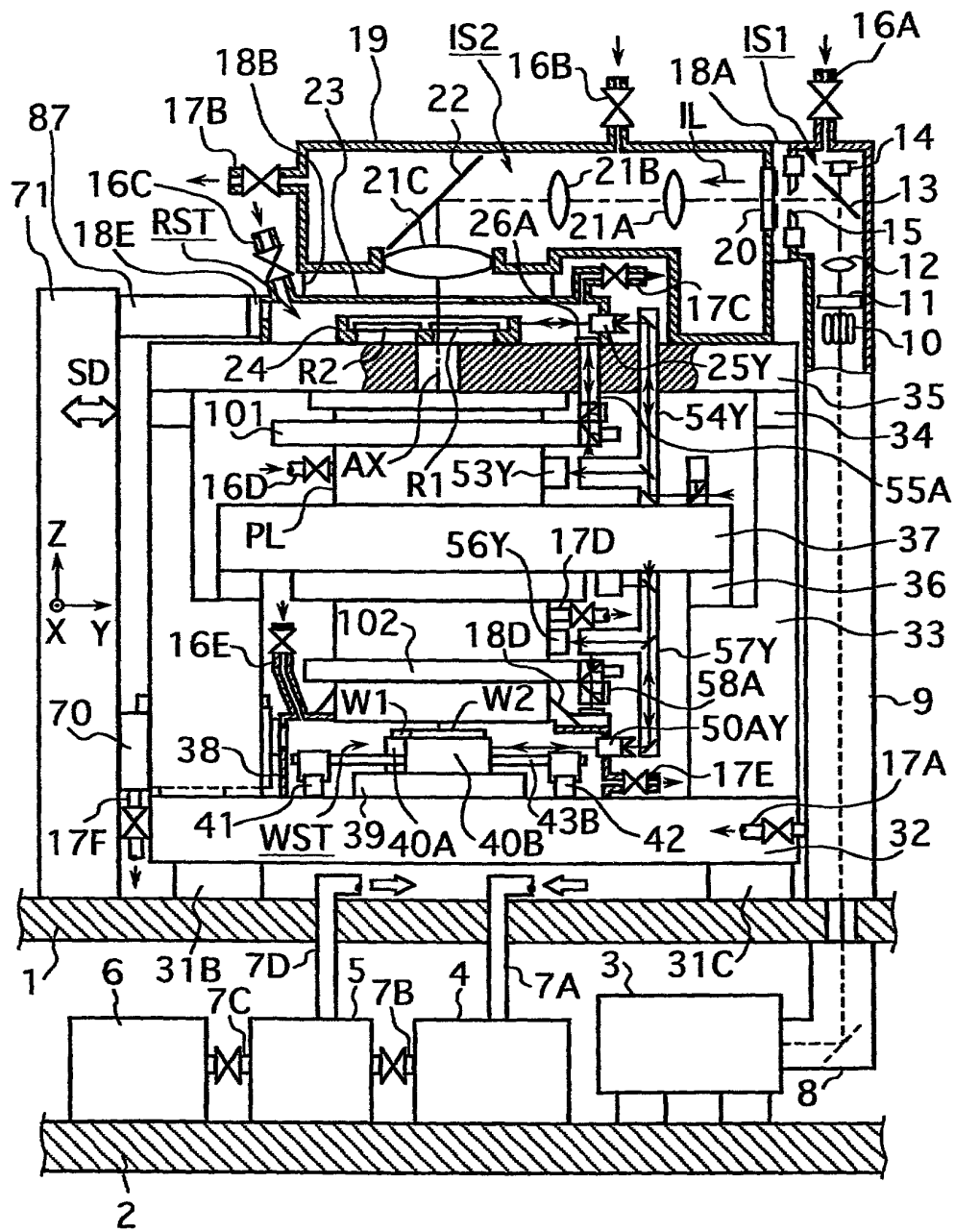


Fig. 3

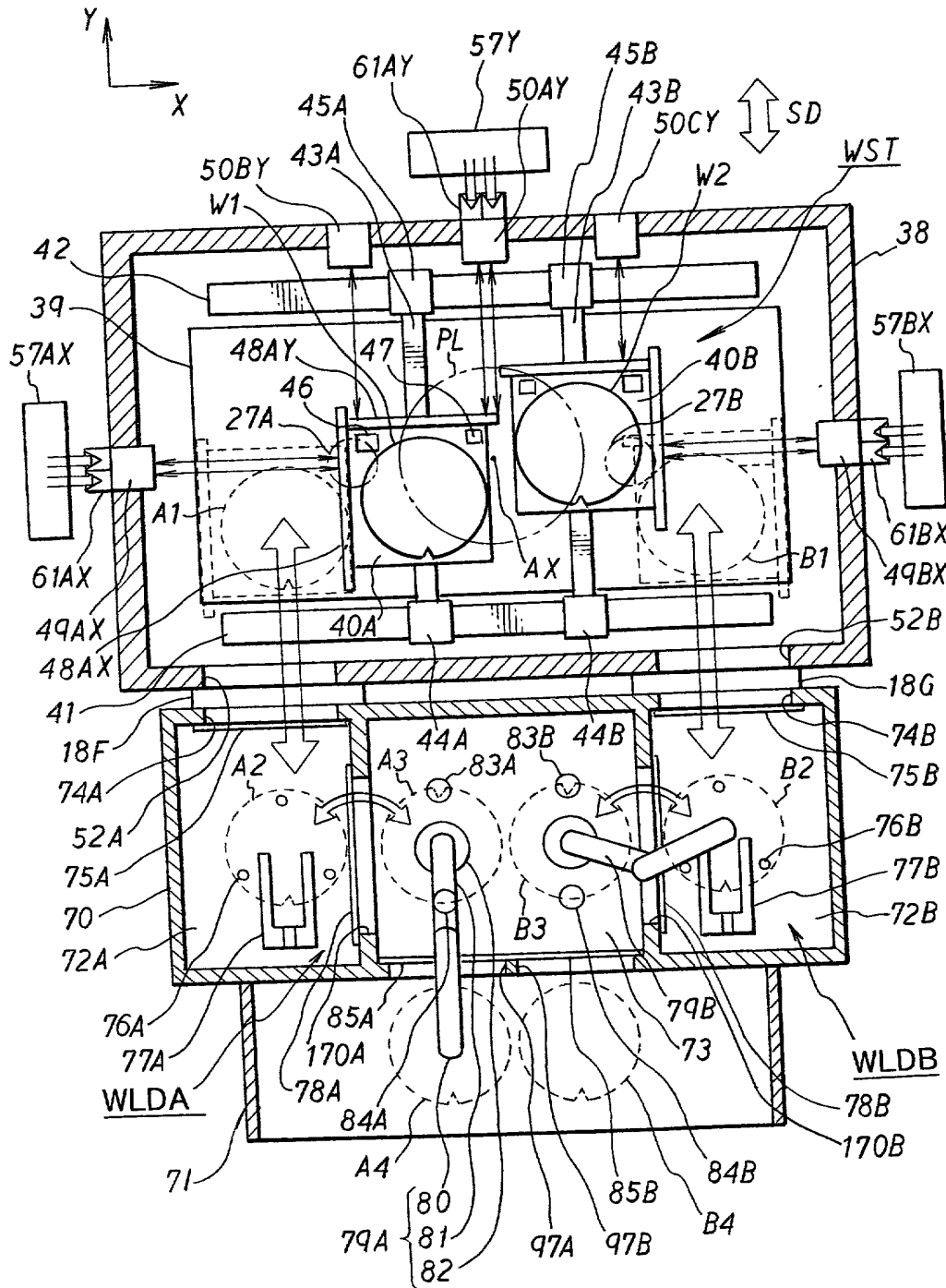


Fig. 4

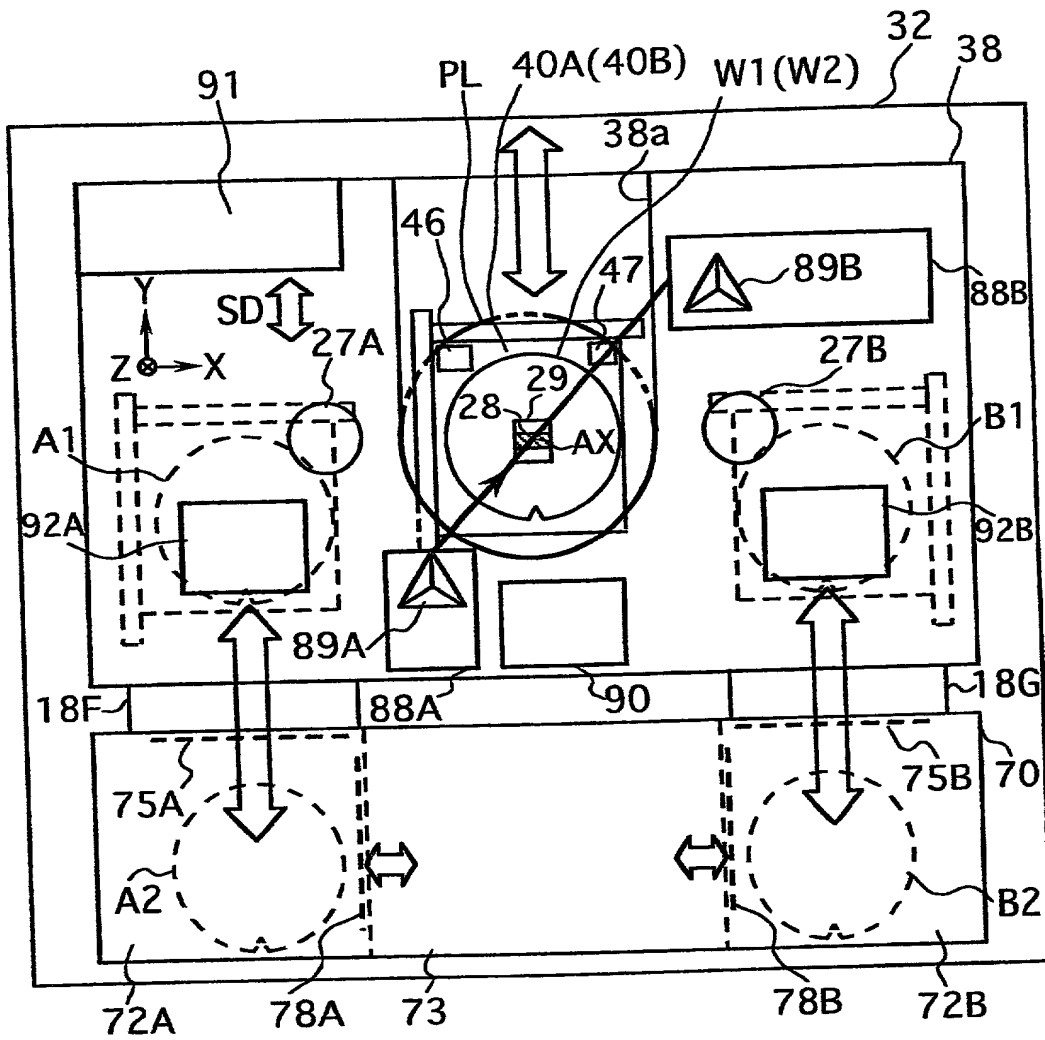


Fig. 6

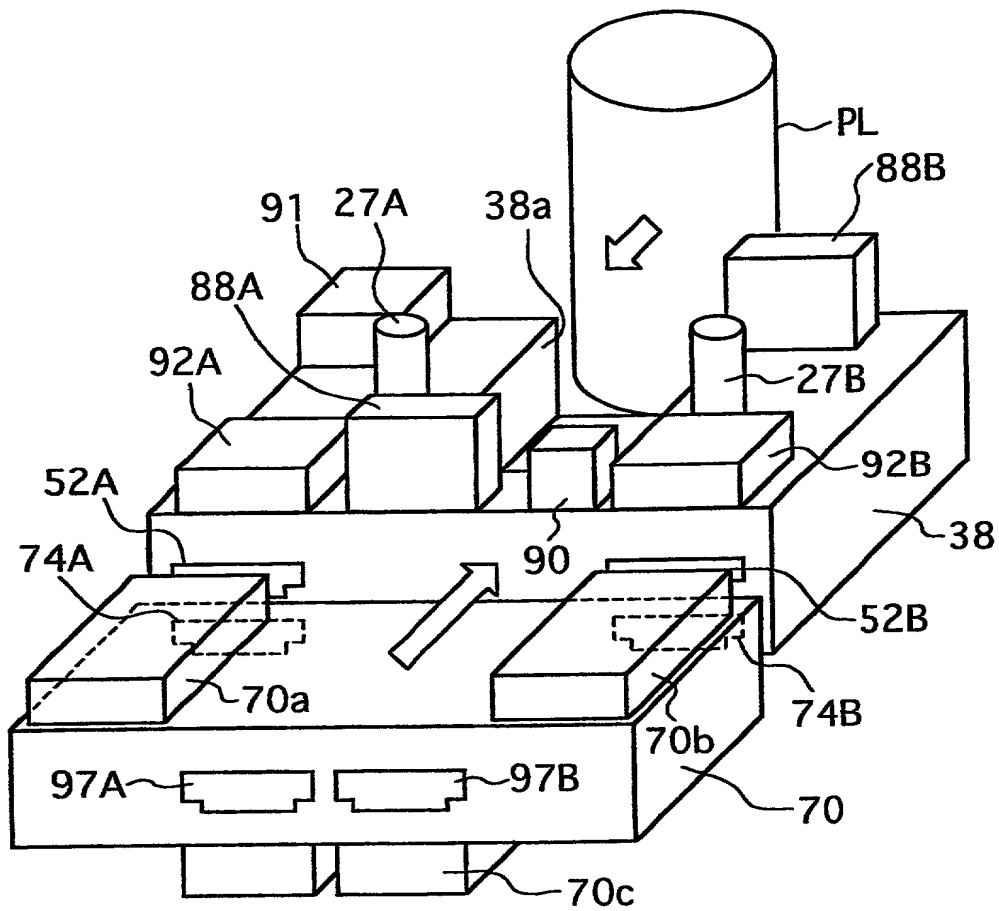


Fig. 7A

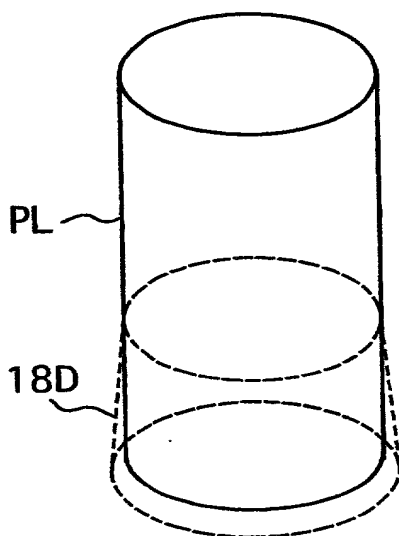


Fig. 7B

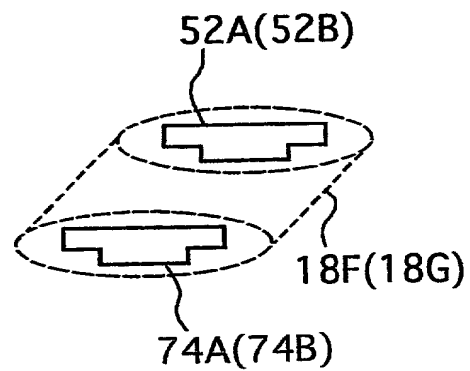


Fig. 8A

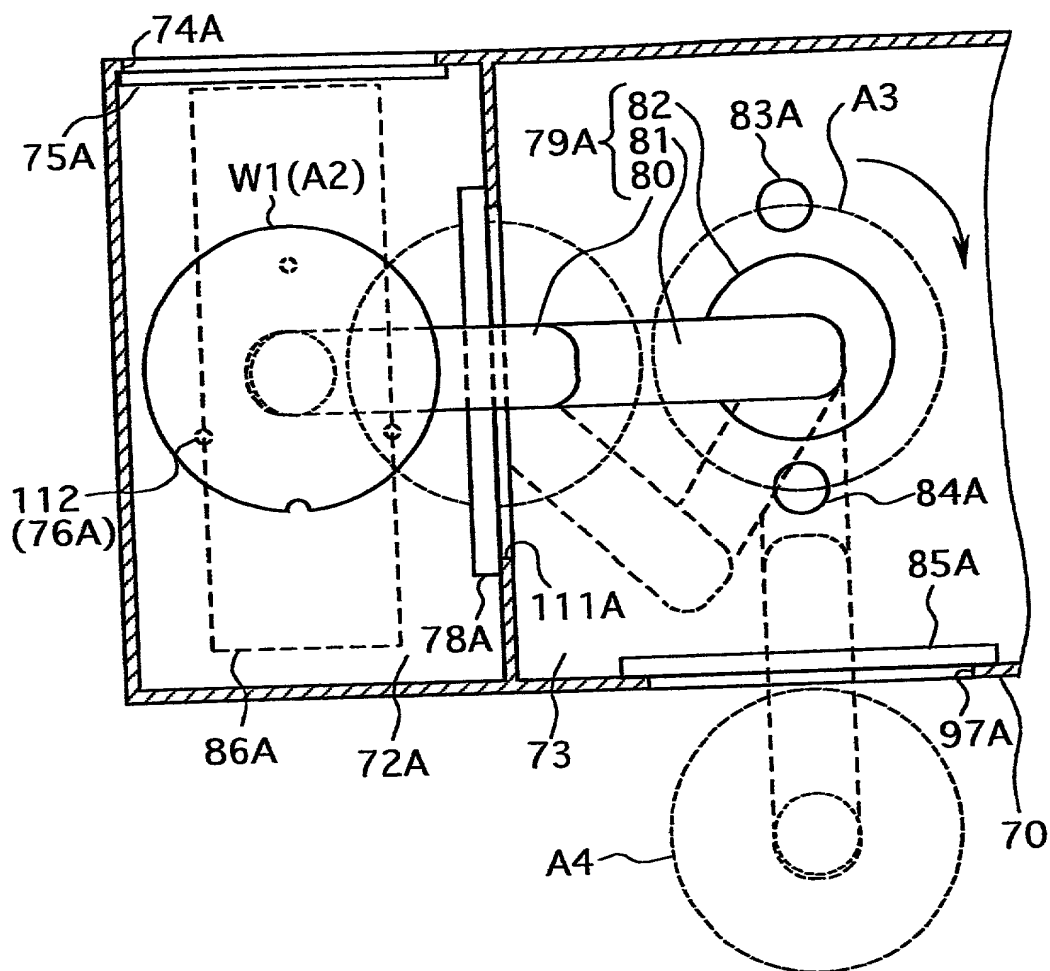


Fig. 8B

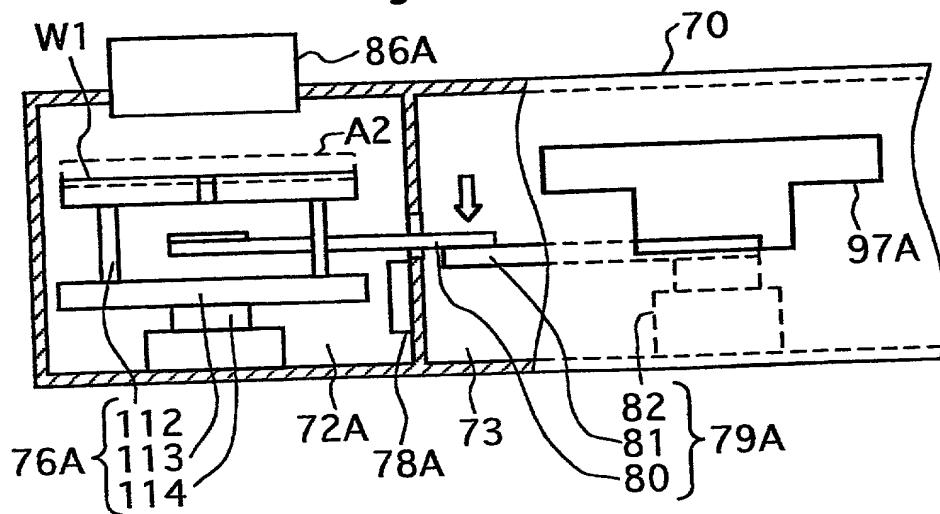


Fig. 9A

Fig. 9C

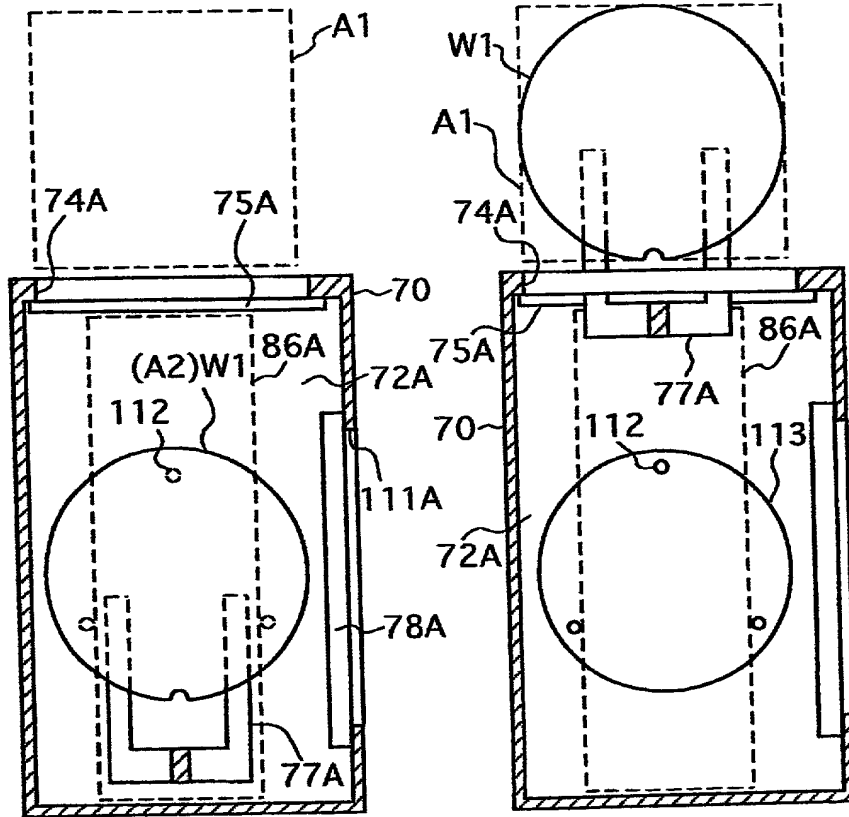


Fig. 9B

Fig. 9D

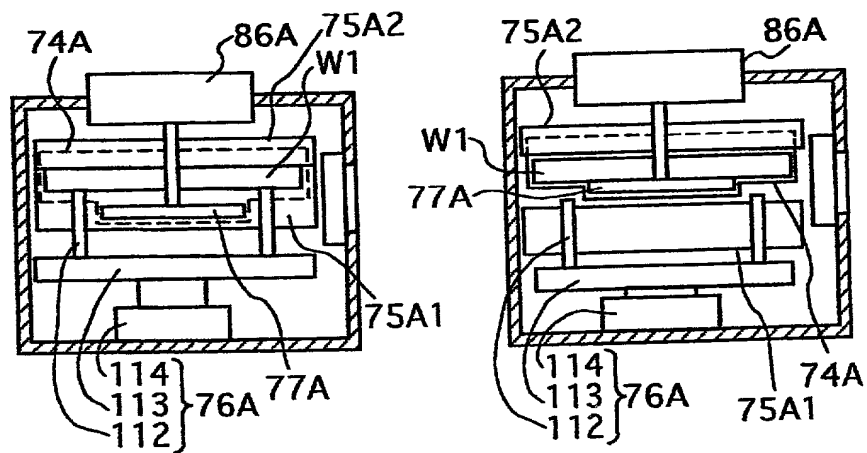


Fig. 10A

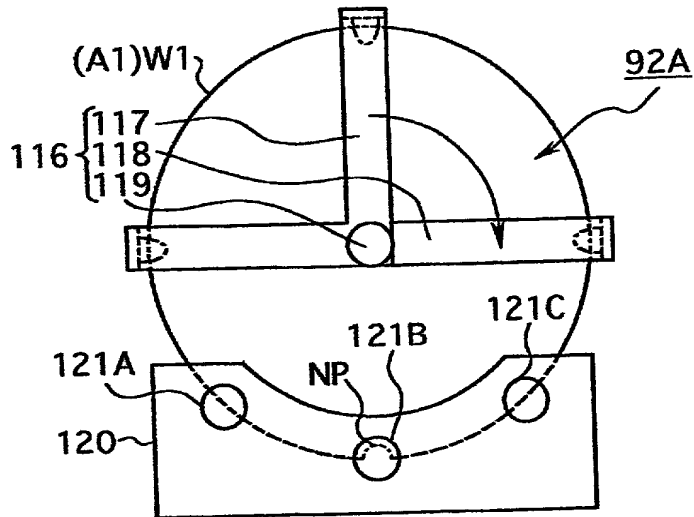


Fig. 10B

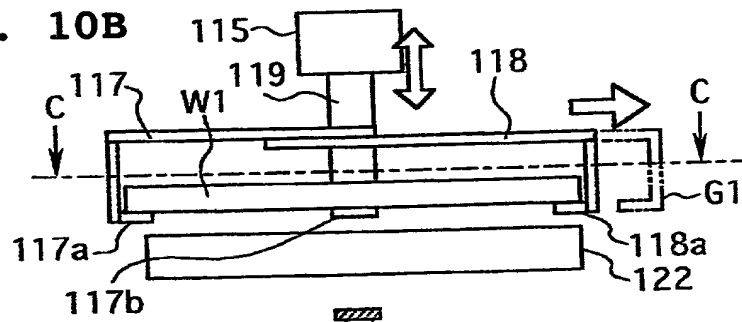
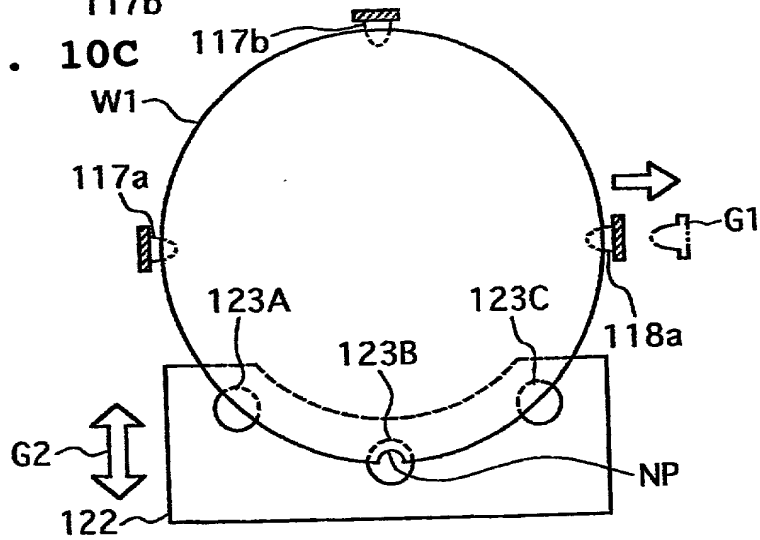


Fig. 10C



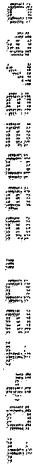
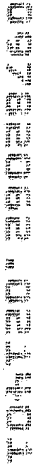
[illegible][illegible]

Fig. 12A

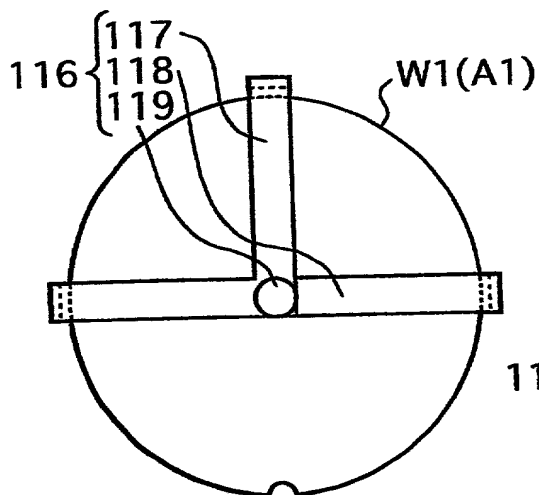


Fig. 12C

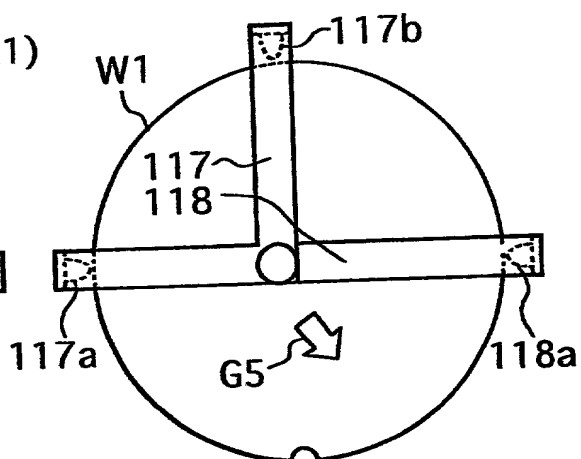


Fig. 12B

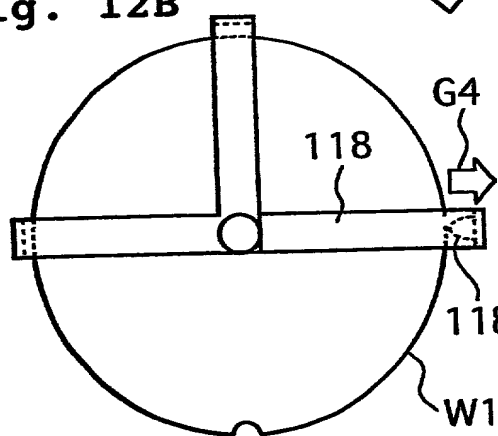


Fig. 12D

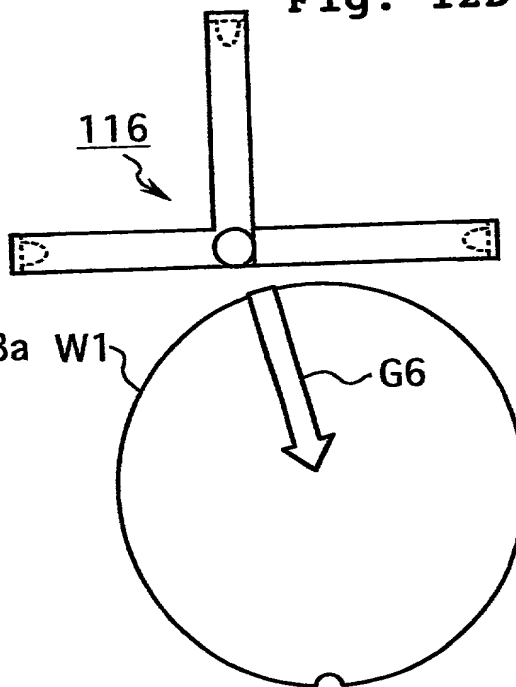


Fig. 13A

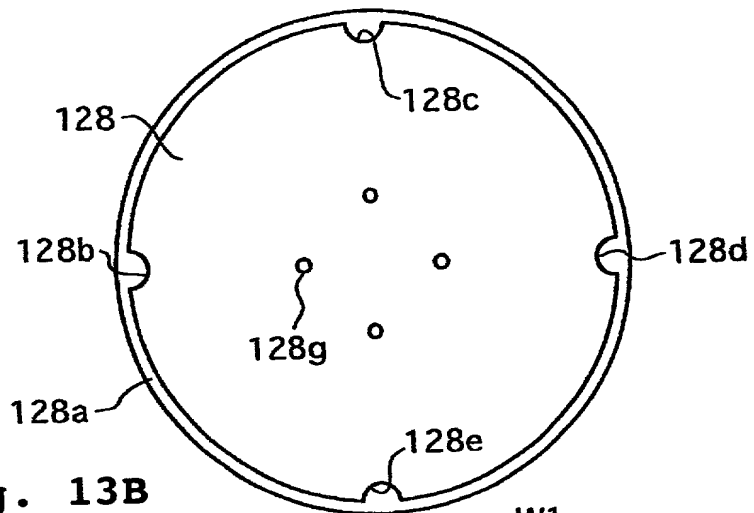


Fig. 13B

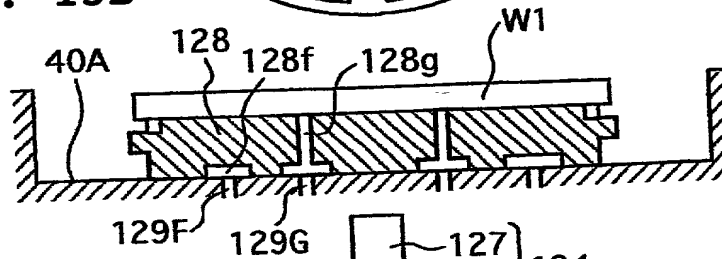


Fig. 13C

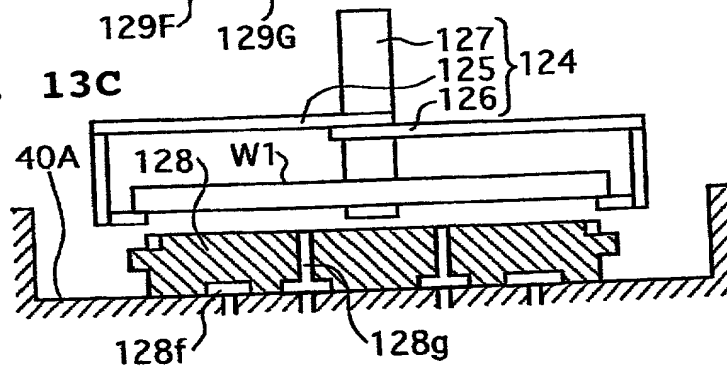


Fig. 13D

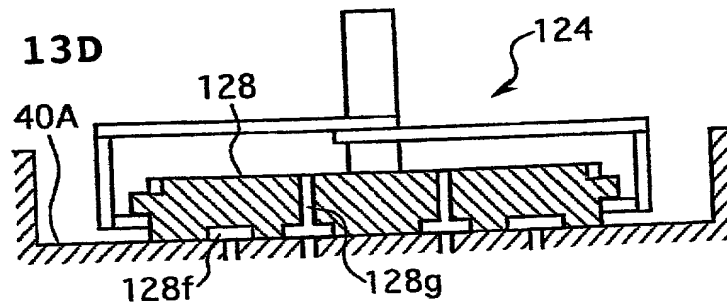


Fig. 14A

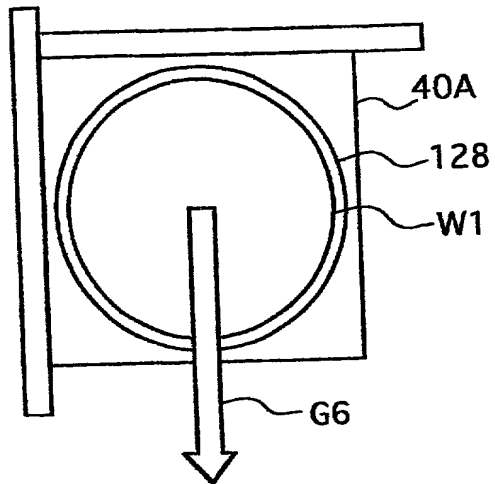


Fig. 14B

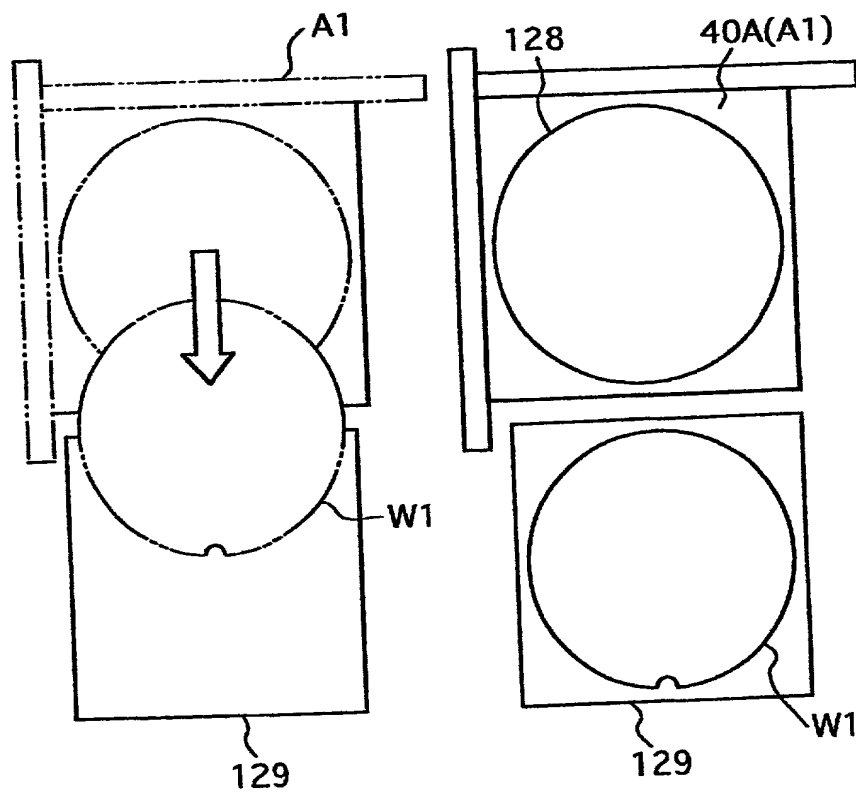


FIG. 15A

Fig. 15A

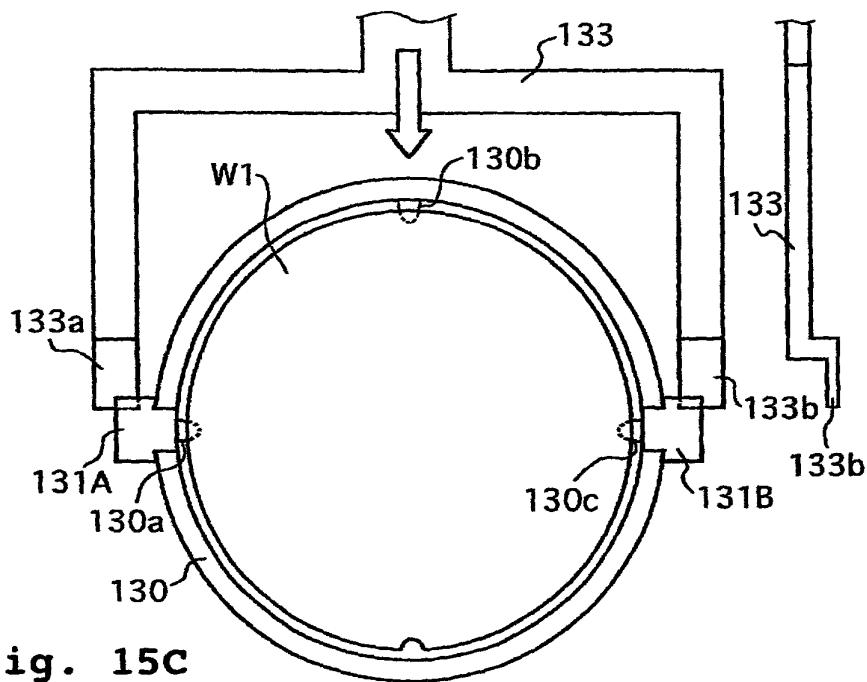


Fig. 15B

Fig. 15C

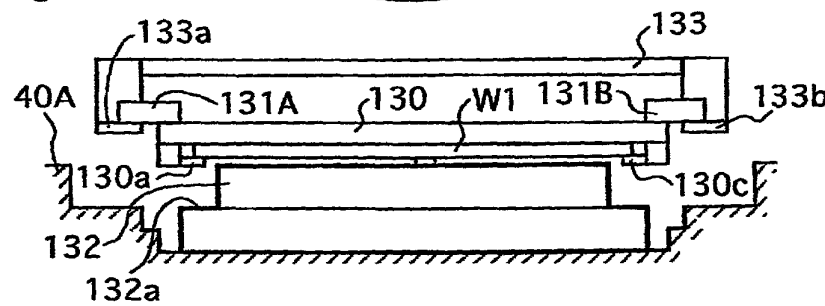


Fig. 15D

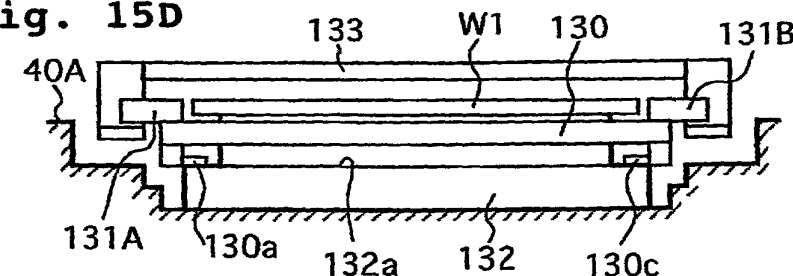


Fig. 16

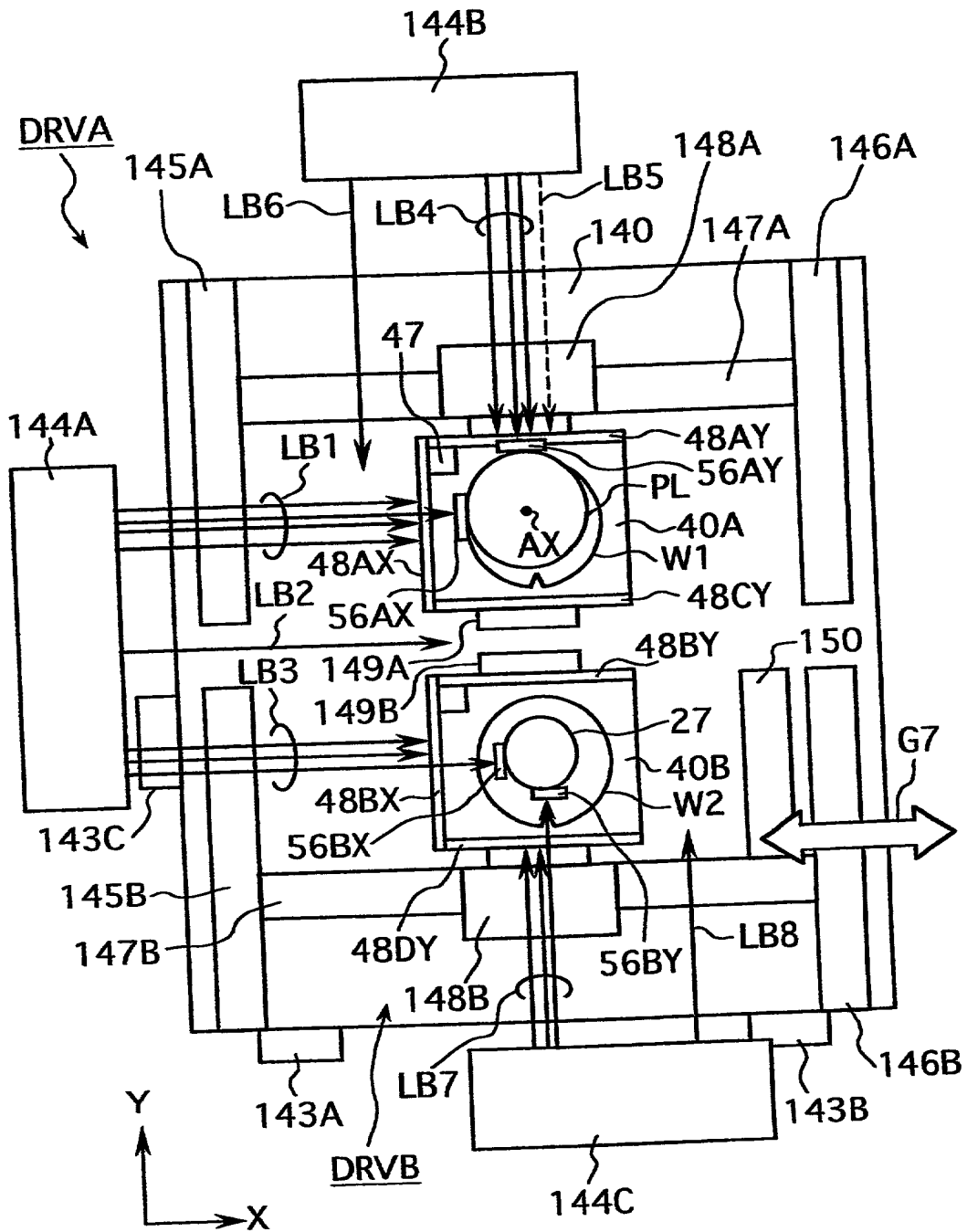


Fig. 18

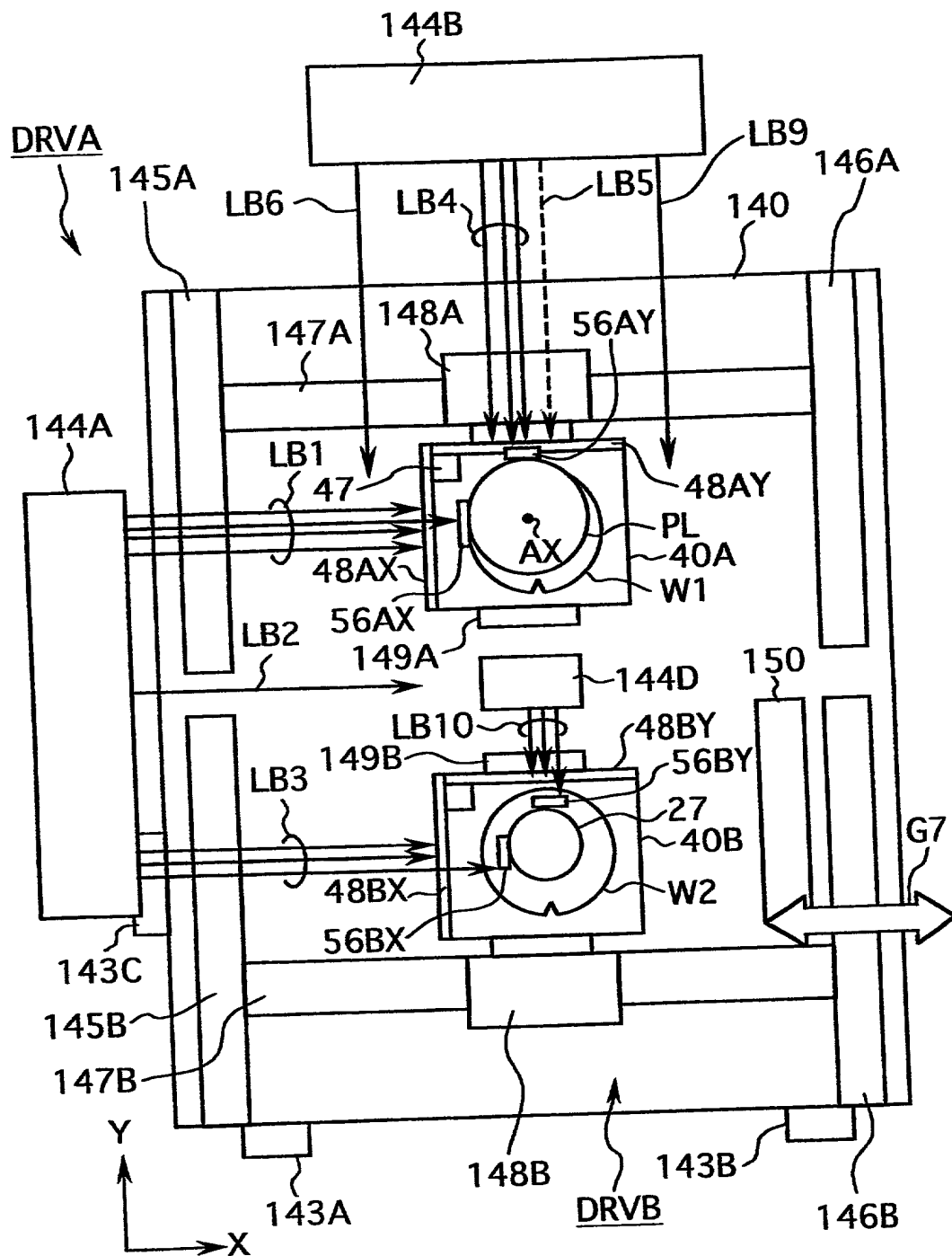


Fig. 19

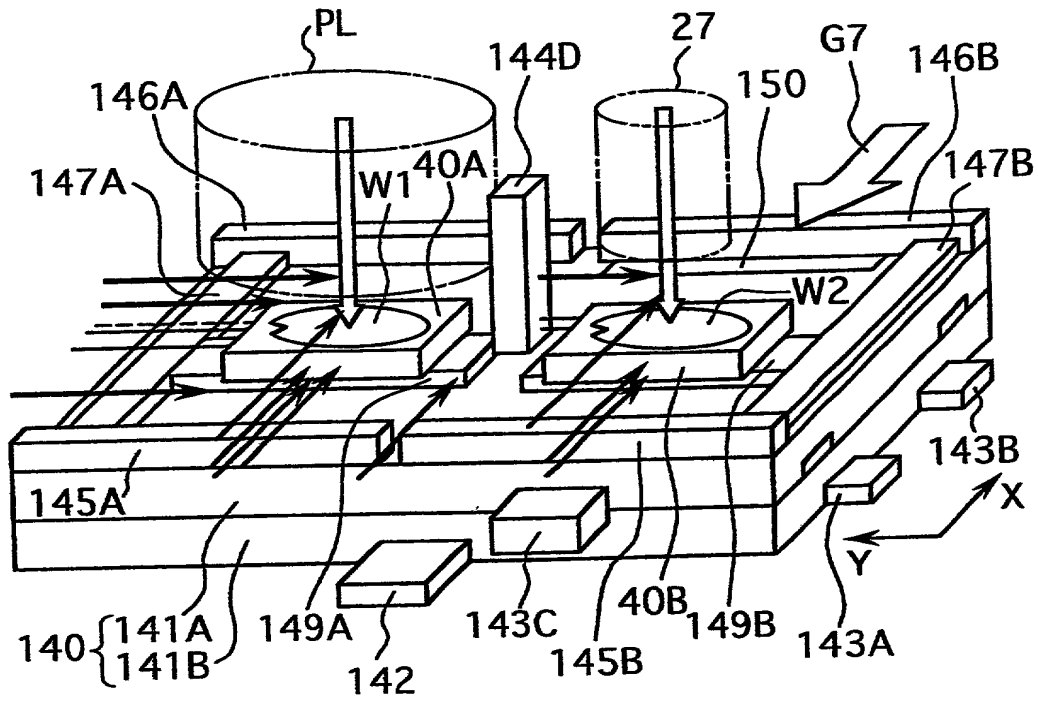
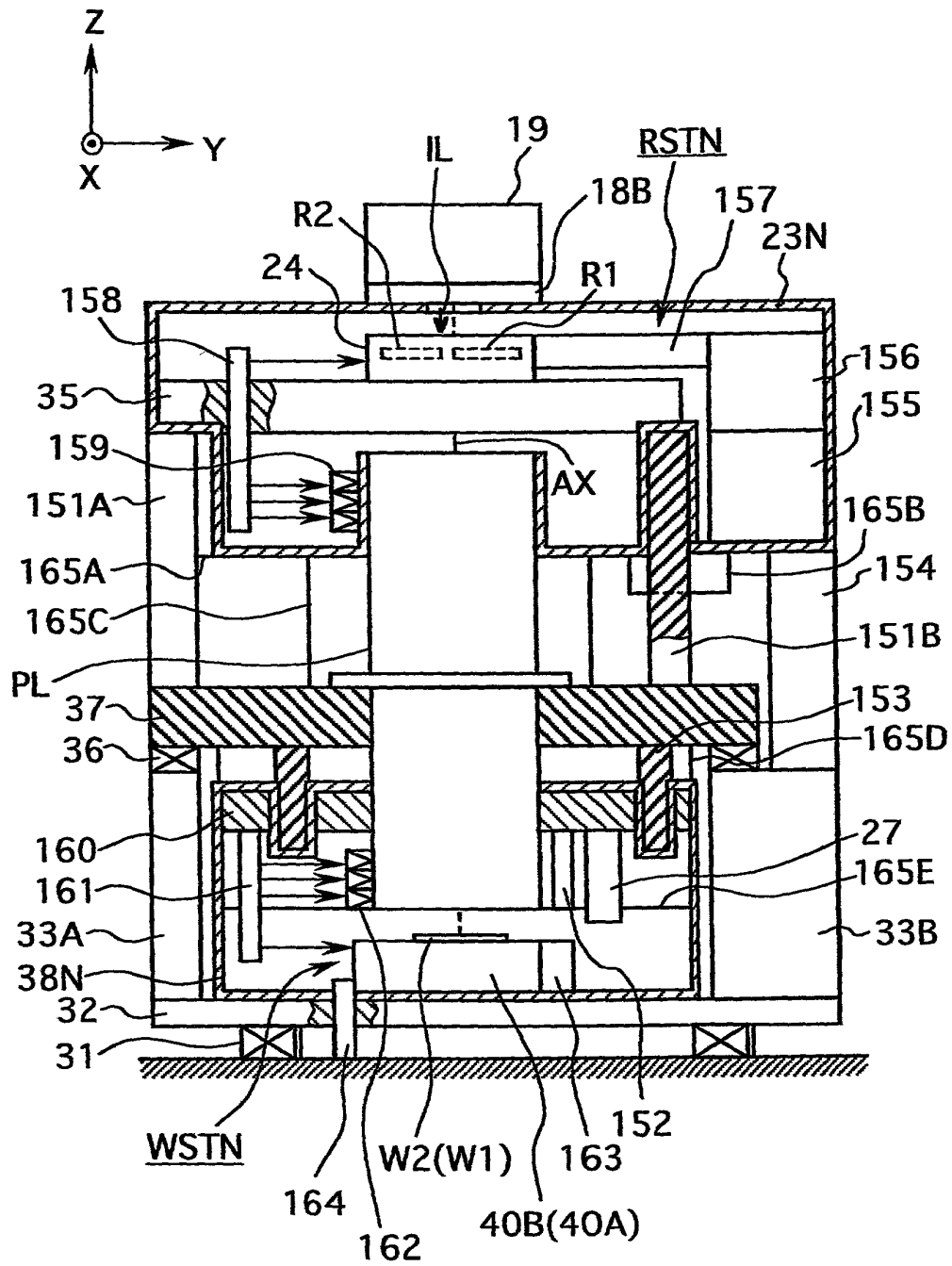


Fig. 20



09782066.03401

Fig. 21A

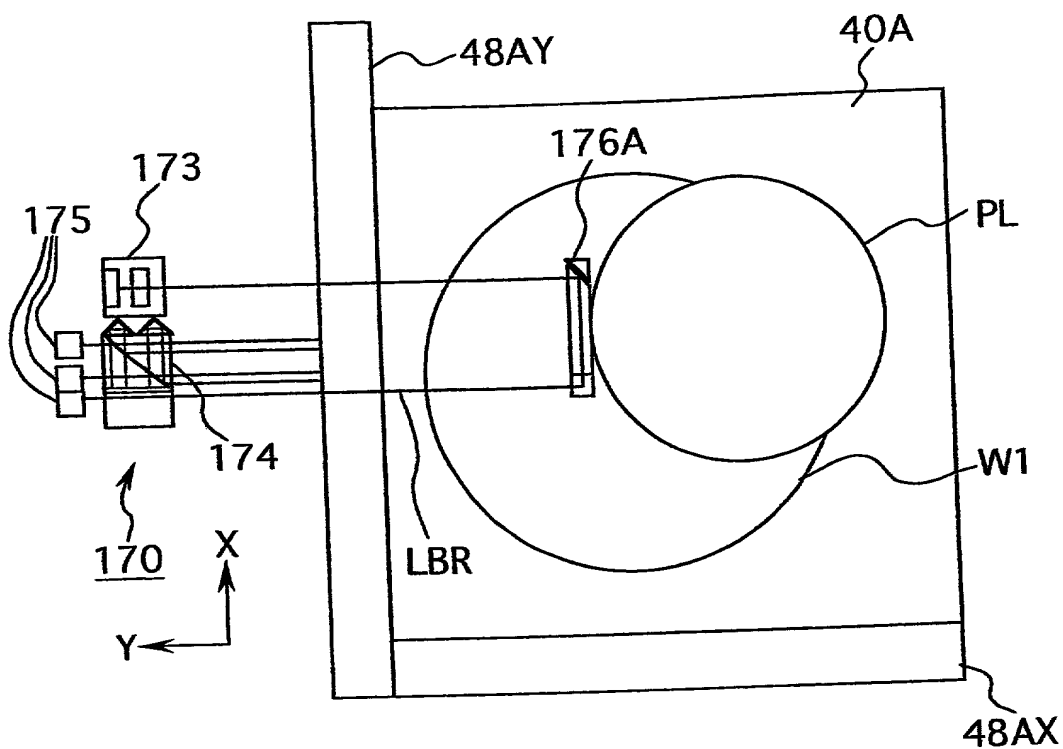


Fig. 21B

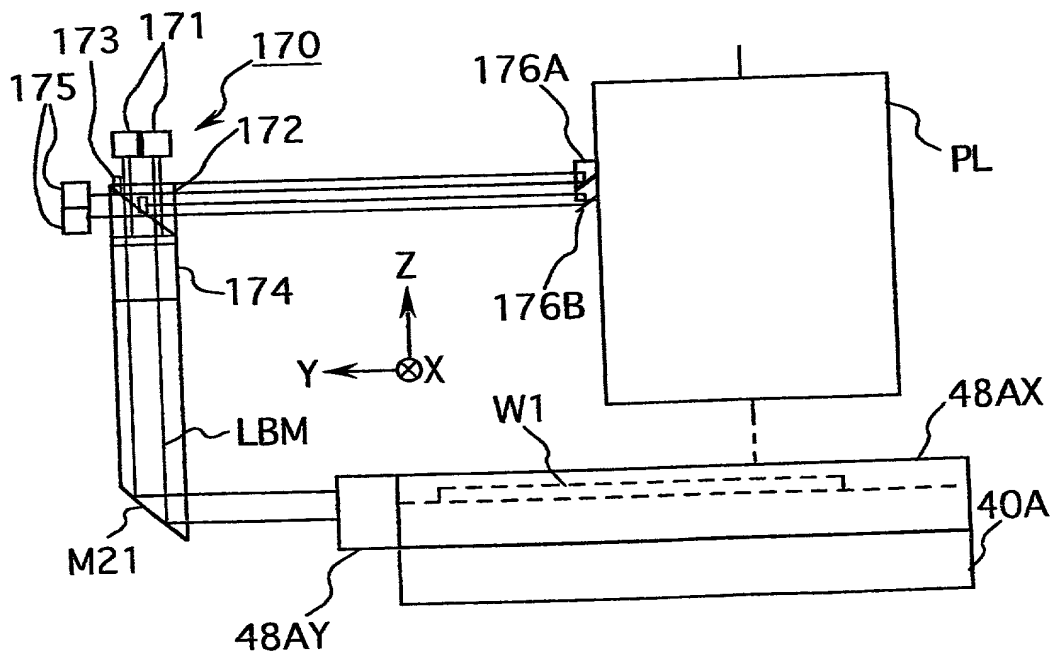


Fig. 22A

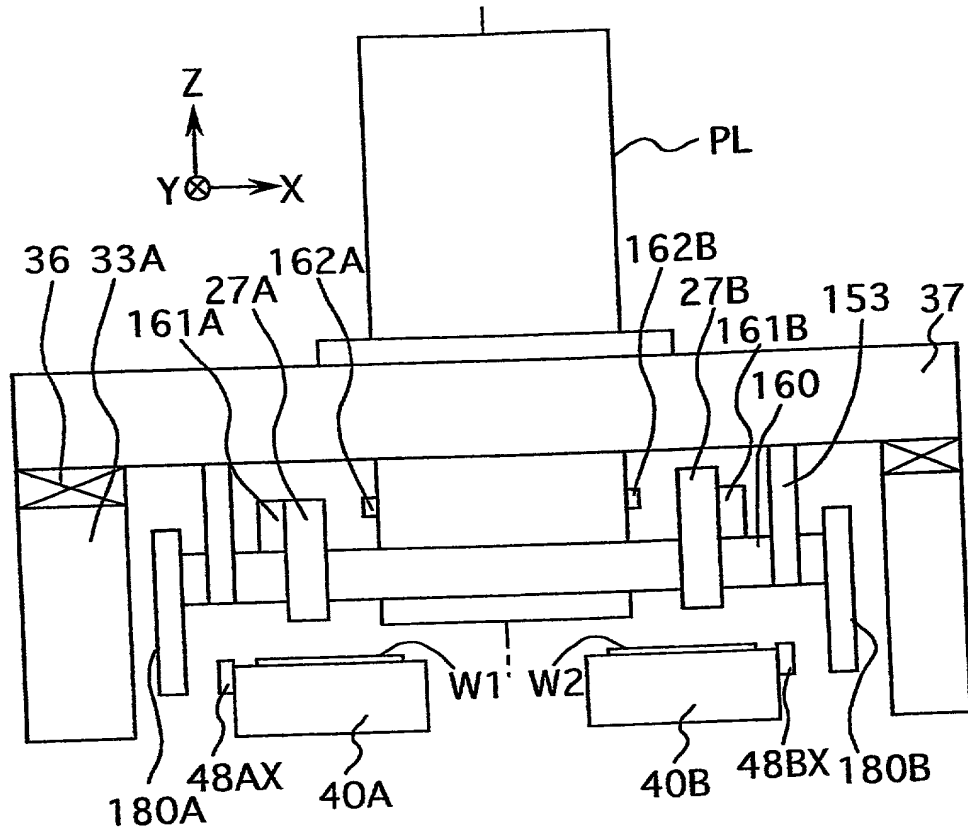


Fig. 22B

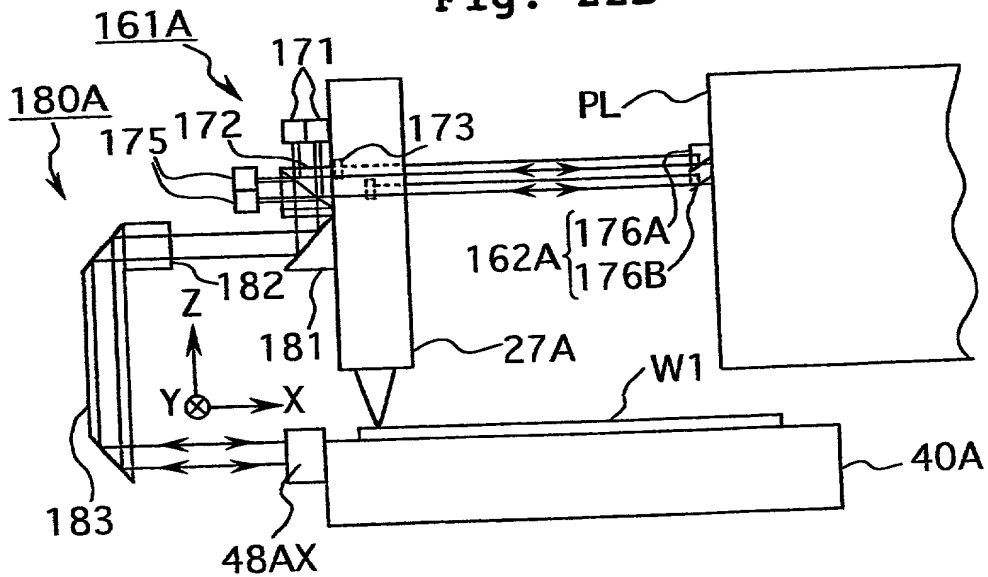


Fig. 23A

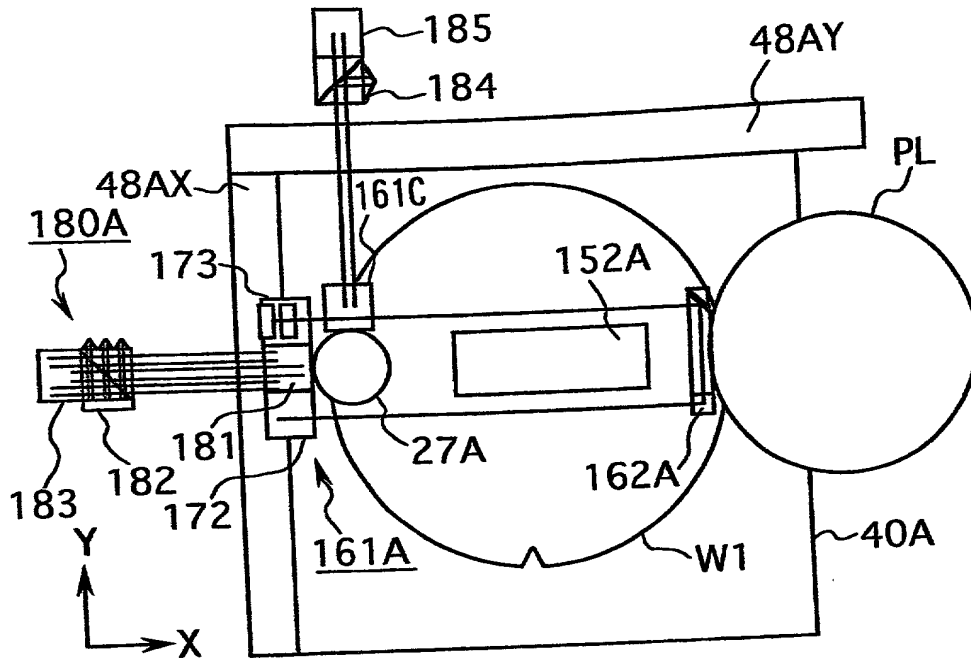
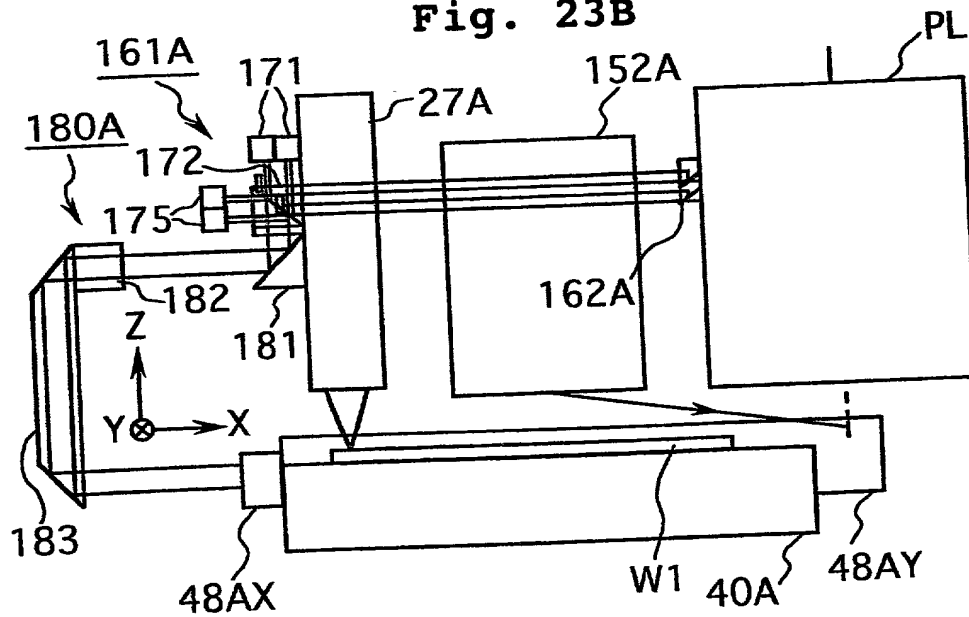


Fig. 23B



1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

2. *Chlorophyll b* (Chl b) is an accessory pigment that absorbs light energy in the blue and red regions of the visible spectrum. It is a green pigment that transfers energy to Chl a.

3. *Carotenoids* are accessory pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow, orange, and red colors seen in autumn foliage.

4. *Xanthophylls* are a class of carotenoids that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow colors seen in autumn foliage.

5. *Lutein* is a specific xanthophyll that absorbs light energy in the blue and green regions of the visible spectrum. It is responsible for the yellow colors seen in autumn foliage.

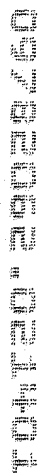
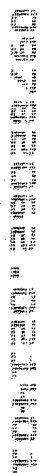
6. *Anthocyanins* are water-soluble pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage.

7. *Flavonols* are a class of flavonoids that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the yellow and orange colors seen in autumn foliage.

8. *Quercetin* is a specific flavonol that absorbs light energy in the blue and green regions of the visible spectrum. It is responsible for the yellow and orange colors seen in autumn foliage.

9. *Anthoxanthins* are a class of flavonoids that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the white and yellow colors seen in autumn foliage.

10. *Anthocyanins* are water-soluble pigments that absorb light energy in the blue and green regions of the visible spectrum. They are responsible for the red, purple, and blue colors seen in autumn foliage.

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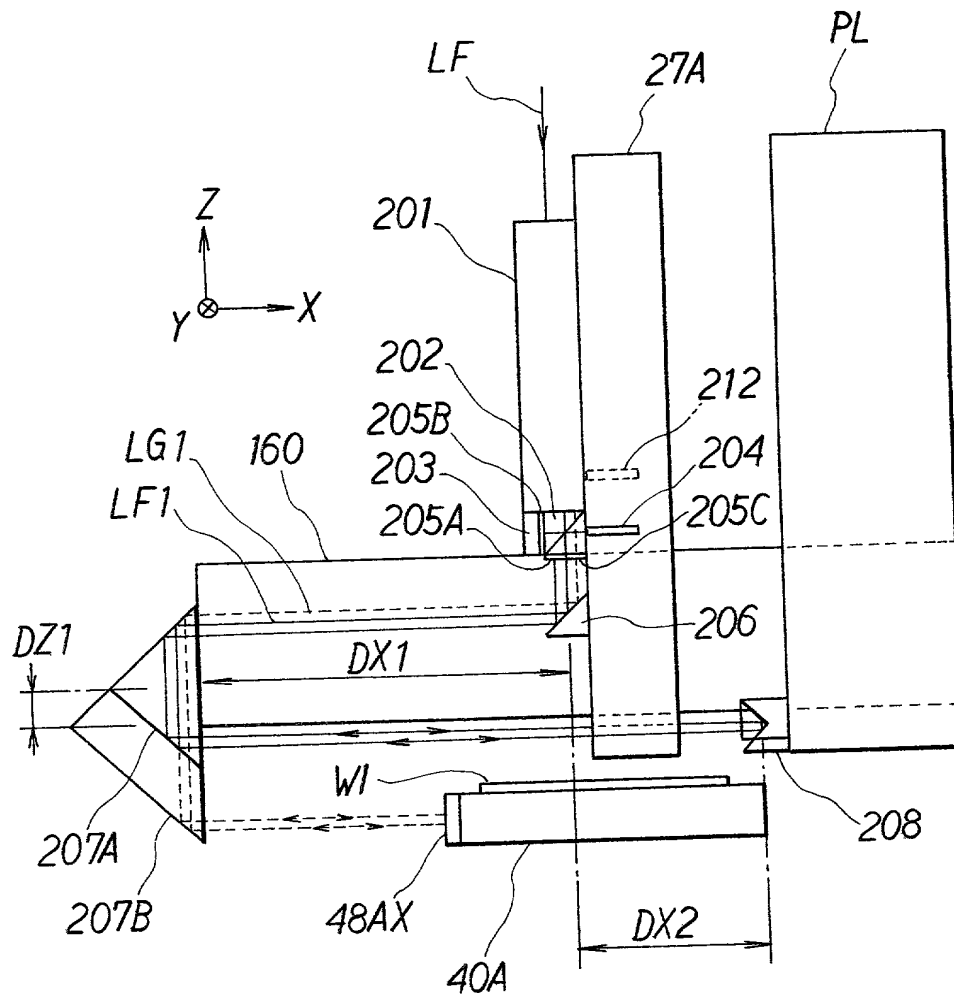


Fig. 26A

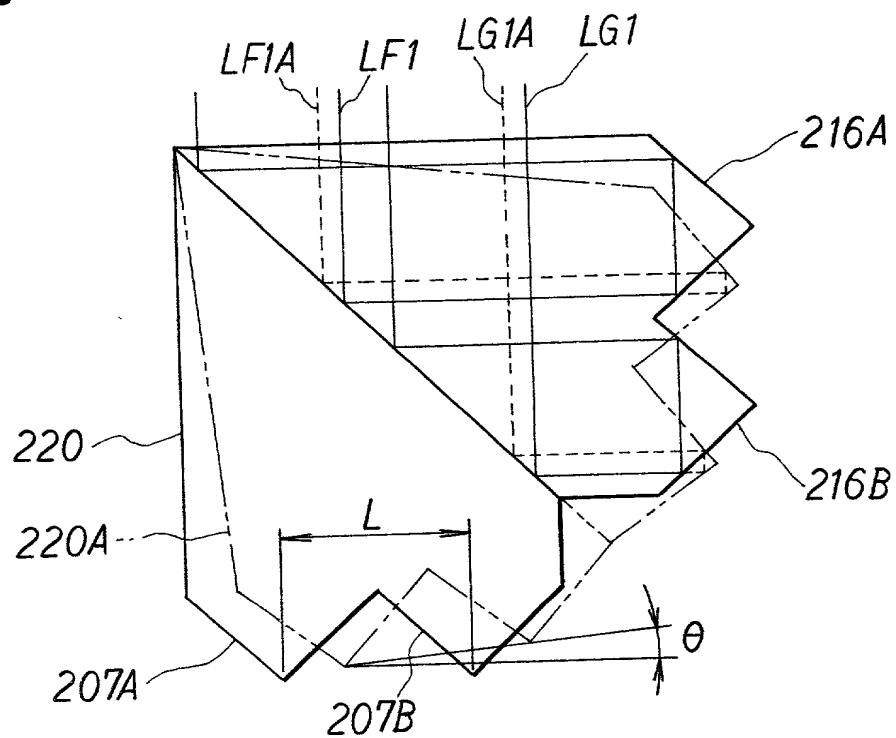


Fig. 26B

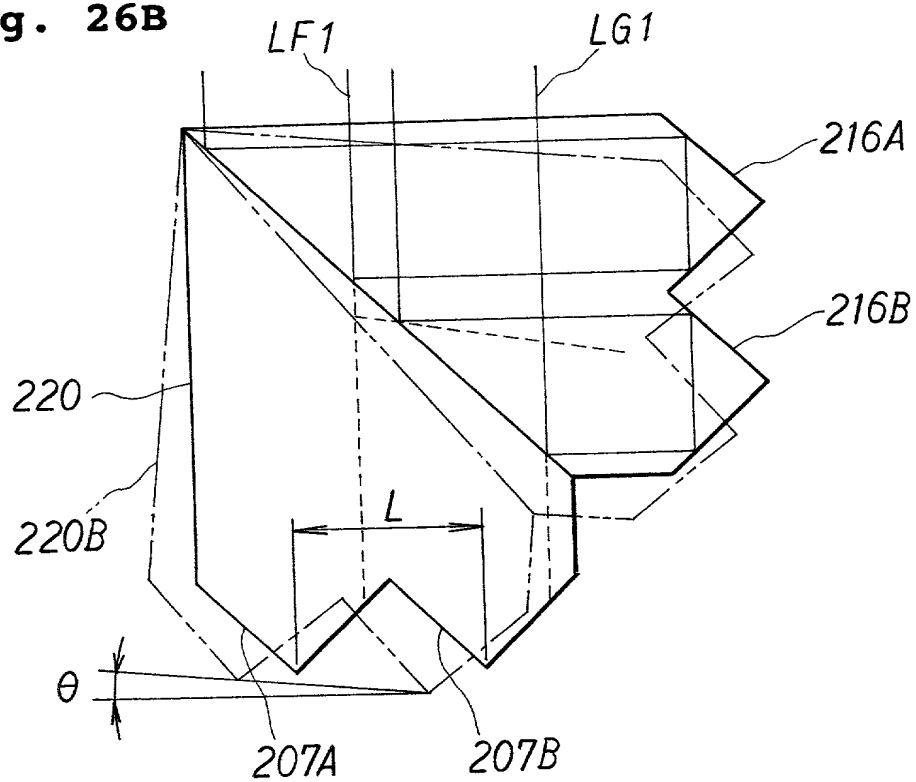


Fig. 27

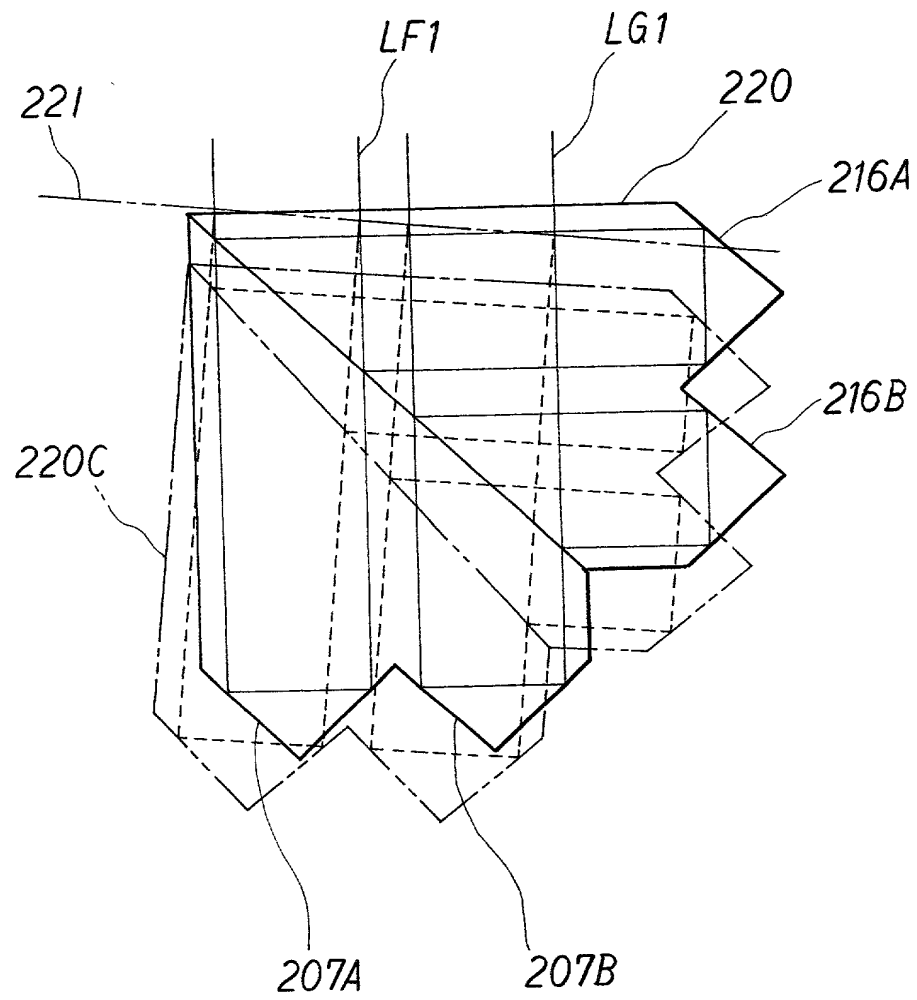


Fig. 28

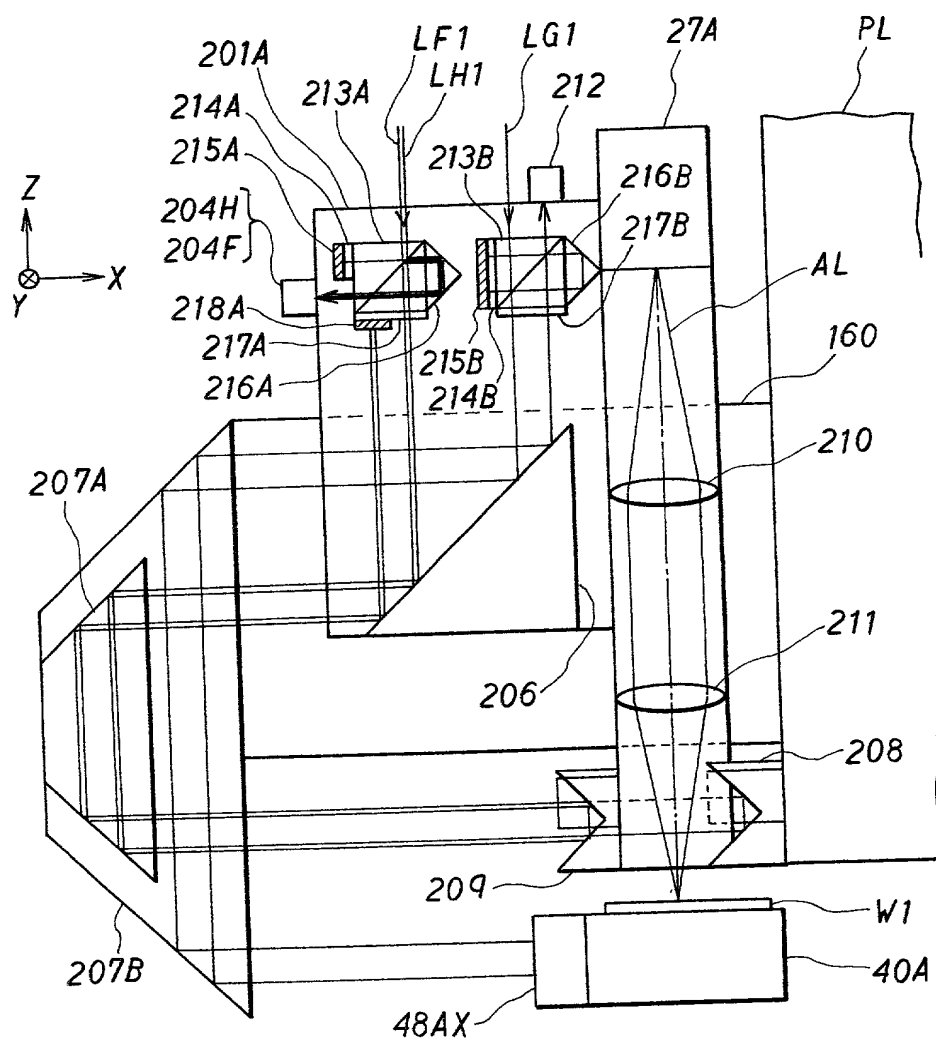


Fig. 29A

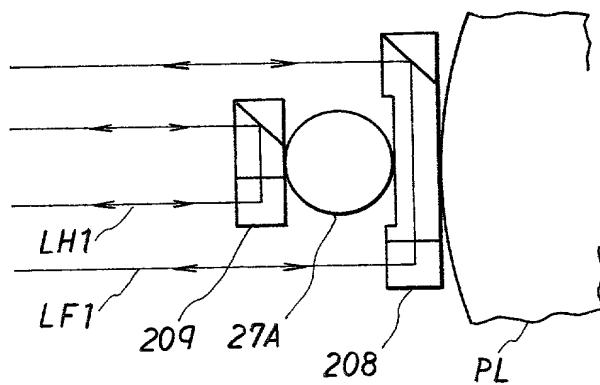


Fig. 29B

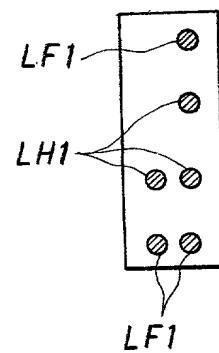


Fig. 30

